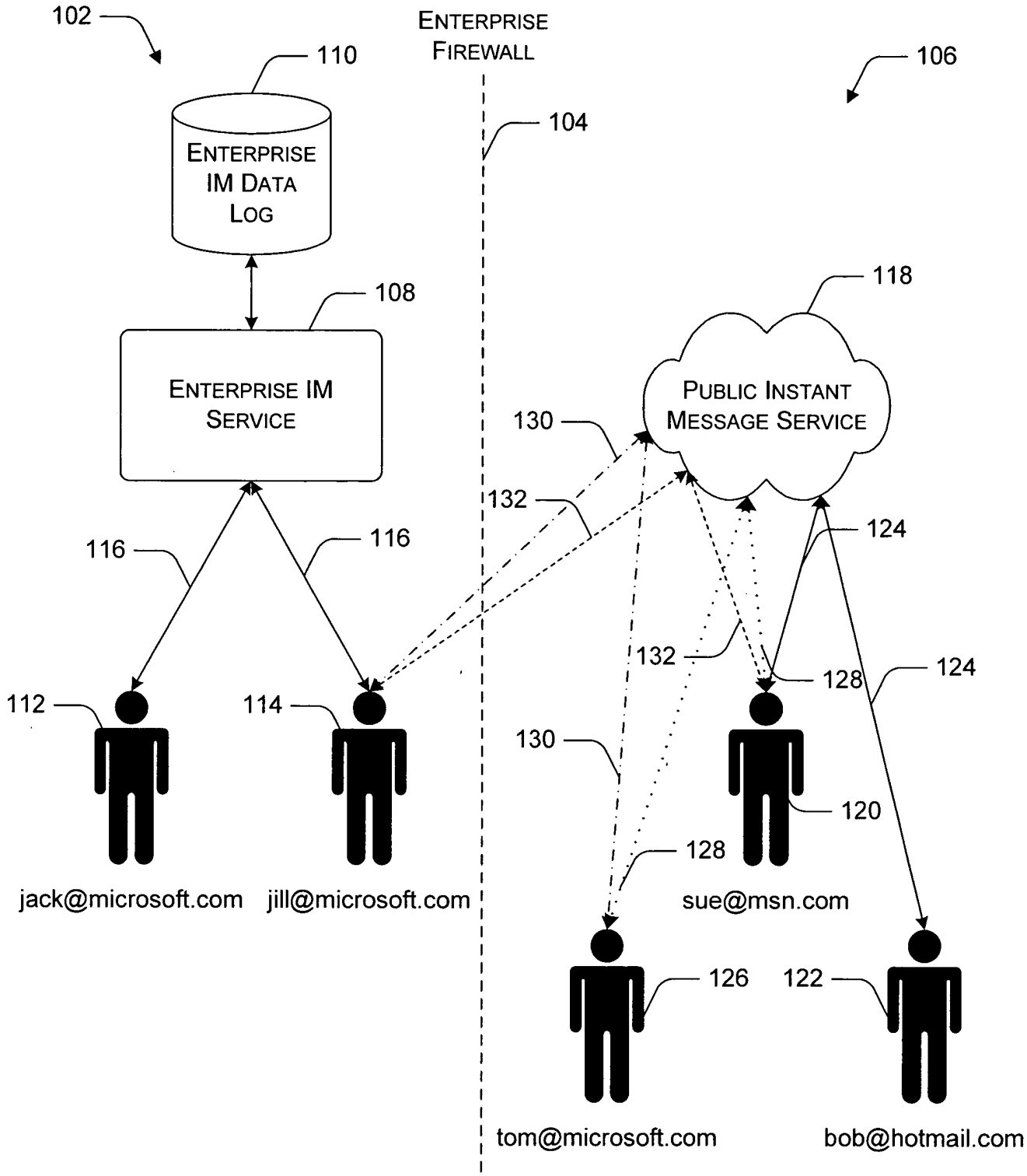
102
ENTERPRISE FIREWALL
106
110
ENTERPRISE IM DATA LOG
104
108
ENTERPRISE IM SERVICE
118
PUBLIC INSTANT MESSAGE SERVICE
130
132
124
116
116
132
128
124
112
114
130
120
128
jack@microsoft.com
jill@microsoft.com
sue@msn.com
126
122
tom@microsoft.com
bob@hotmail.com

Figure 1

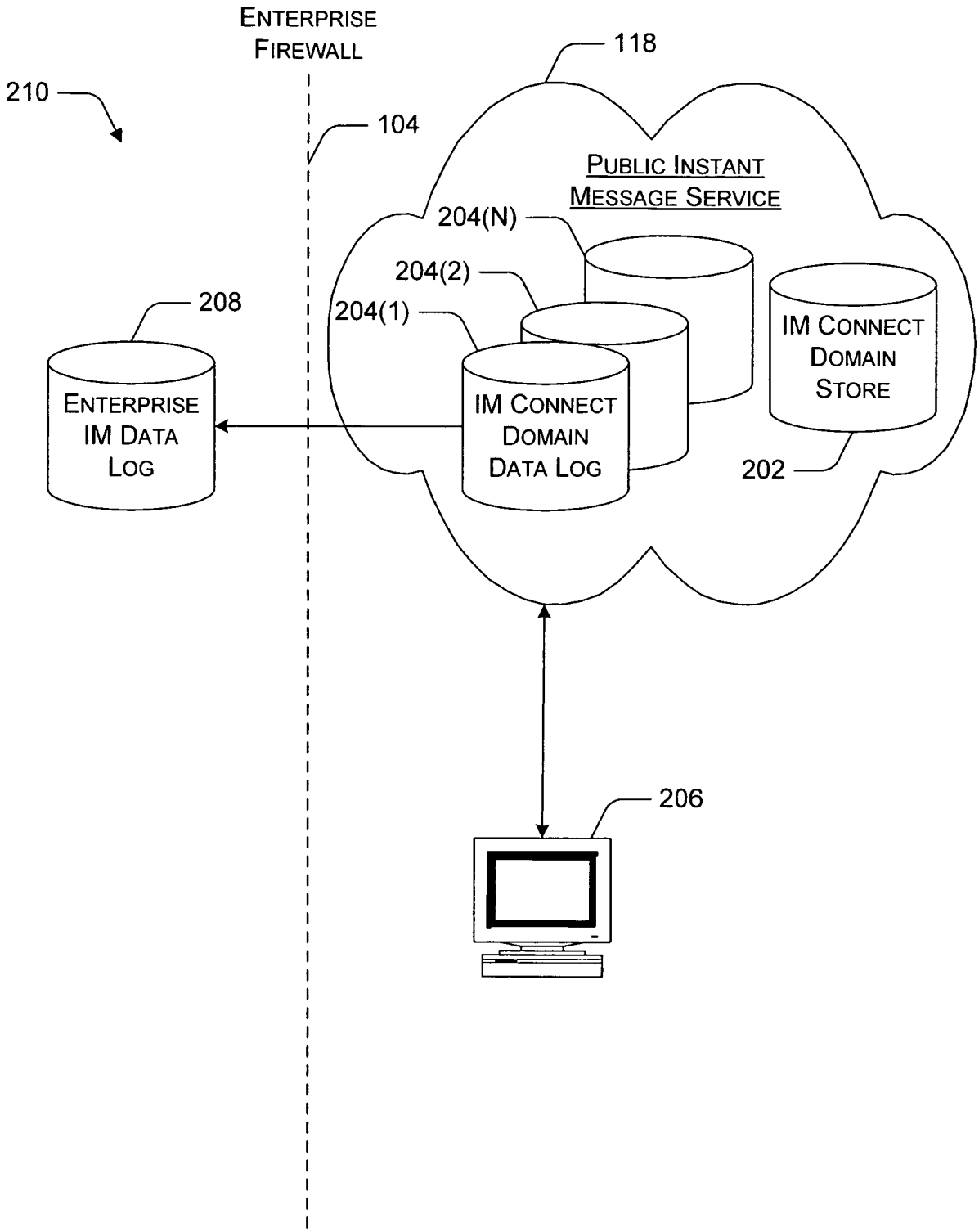
ENTERPRISE
FIREWALL
210
104
118
PUBLIC INSTANT
MESSAGE SERVICE
204(N)
204(2)
204(1)
208
ENTERPRISE
IM DATA
LOG
IM CONNECT
DOMAIN
DATA LOG
IM CONNECT
DOMAIN
STORE
202
206

Figure 2

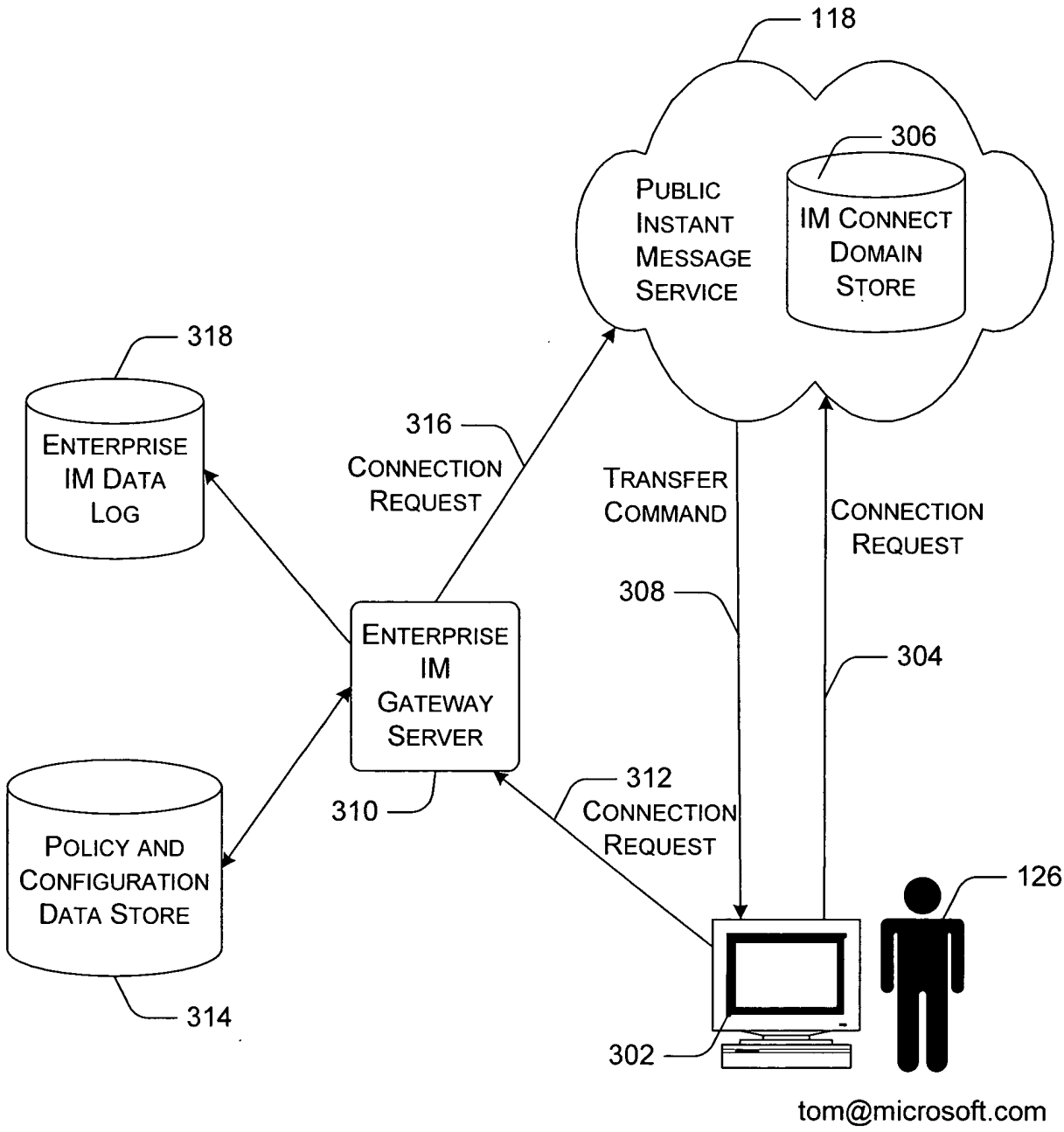
118
306
PUBLIC INSTANT MESSAGE SERVICE
IM CONNECT DOMAIN STORE
318
ENTERPRISE IM DATA LOG
316
CONNECTION REQUEST
TRANSFER COMMAND
CONNECTION REQUEST
308
304
ENTERPRISE IM GATEWAY SERVER
310
312
CONNECTION REQUEST
POLICY AND CONFIGURATION DATA STORE
314
126
302
tom@microsoft.com

Figure 3

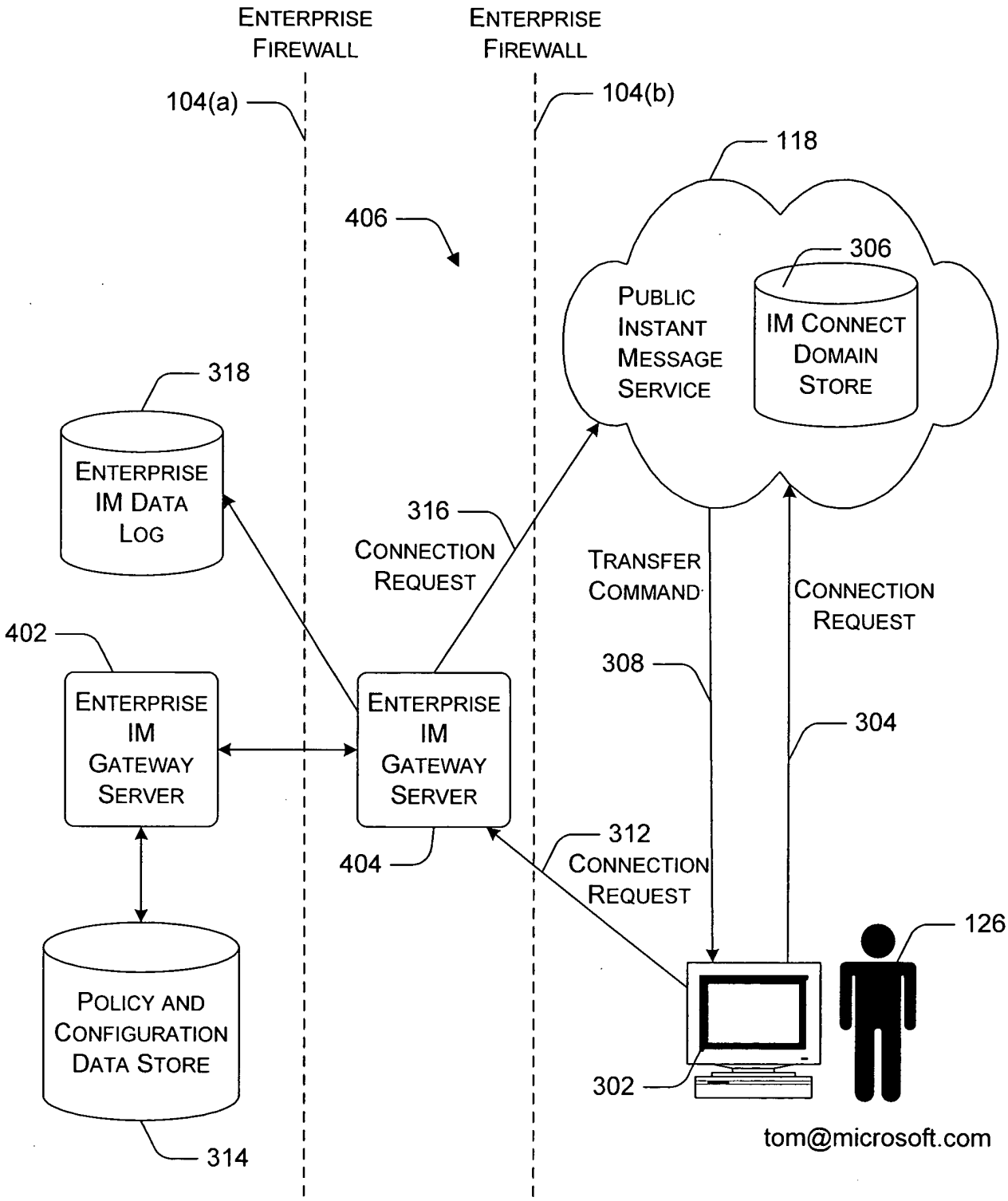
ENTERPRISE FIREWALL
ENTERPRISE FIREWALL
104(a)
104(b)
118
406
306
PUBLIC INSTANT MESSAGE SERVICE
IM CONNECT DOMAIN STORE
318
ENTERPRISE IM DATA LOG
316
CONNECTION REQUEST
TRANSFER COMMAND
CONNECTION REQUEST
402
308
304
ENTERPRISE IM GATEWAY SERVER
ENTERPRISE IM GATEWAY SERVER
404
312
CONNECTION REQUEST
126
POLICY AND CONFIGURATION DATA STORE
302
tom@microsoft.com
314

Figure 4

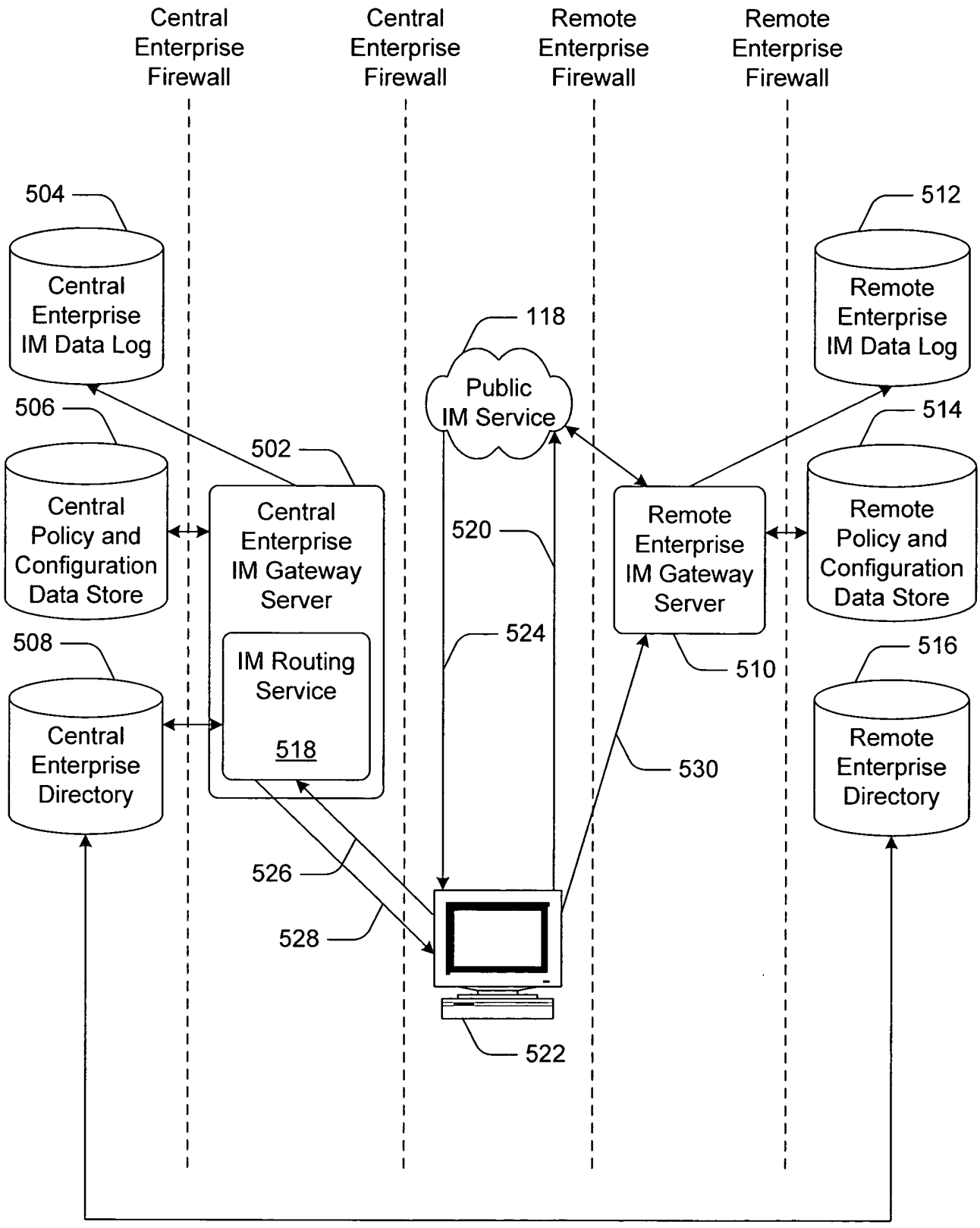
Central Enterprise Firewall
Central Enterprise Firewall
Remote Enterprise Firewall
Remote Enterprise Firewall
504
Central Enterprise IM Data Log
506
Central Policy and Configuration Data Store
508
Central Enterprise Directory
502
Central Enterprise IM Gateway Server
IM Routing Service
518
118
Public IM Service
520
524
526
528
522
530
Remote Enterprise IM Gateway Server
510
512
Remote Enterprise IM Data Log
514
Remote Policy and Configuration Data Store
516
Remote Enterprise Directory

Figure 5

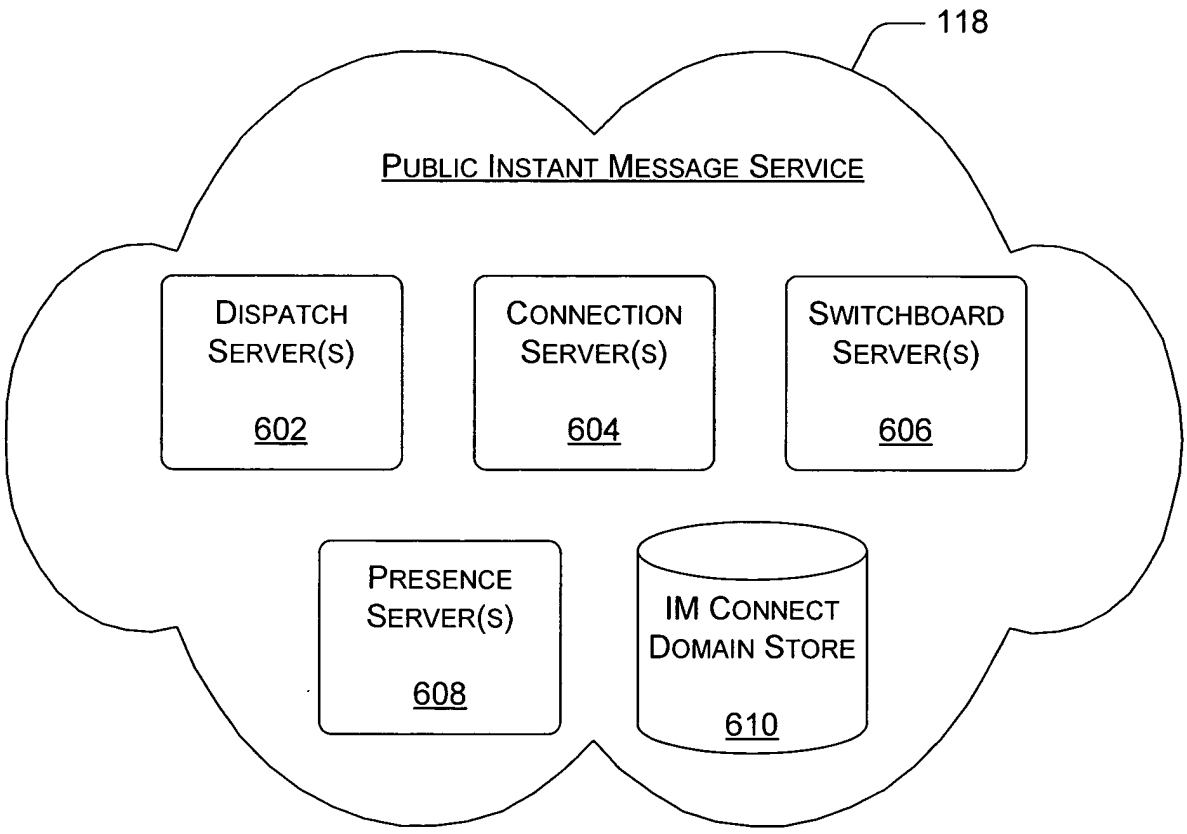
118
PUBLIC INSTANT MESSAGE SERVICE
DISPATCH SERVER(S)
602
CONNECTION SERVER(S)
604
SWITCHBOARD SERVER(S)
606
PRESENCE SERVER(S)
608
IM CONNECT DOMAIN STORE
610

Figure 6

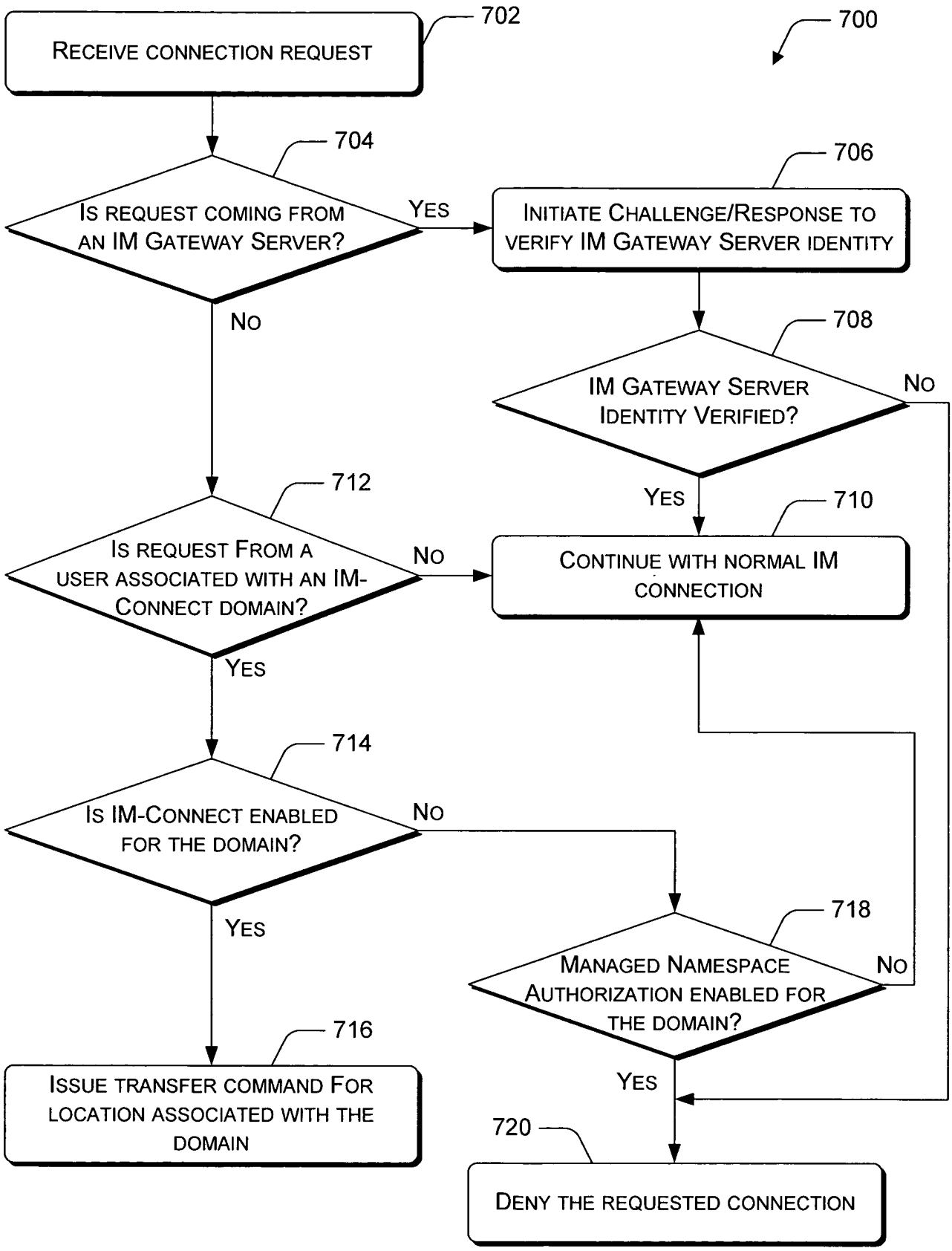
RECEIVE CONNECTION REQUEST
702
700
704
IS REQUEST COMING FROM AN IM GATEWAY SERVER?
YES
706
INITIATE CHALLENGE/RESPONSE TO VERIFY IM GATEWAY SERVER IDENTITY
NO
708
IM GATEWAY SERVER IDENTITY VERIFIED?
NO
YES
712
710
IS REQUEST FROM A USER ASSOCIATED WITH AN IM-CONNECT DOMAIN?
NO
CONTINUE WITH NORMAL IM CONNECTION
YES
714
IS IM-CONNECT ENABLED FOR THE DOMAIN?
NO
YES
718
MANAGED NAMESPACE AUTHORIZATION ENABLED FOR THE DOMAIN?
NO
716
YES
ISSUE TRANSFER COMMAND FOR LOCATION ASSOCIATED WITH THE DOMAIN
720
DENY THE REQUESTED CONNECTION

Figure 7

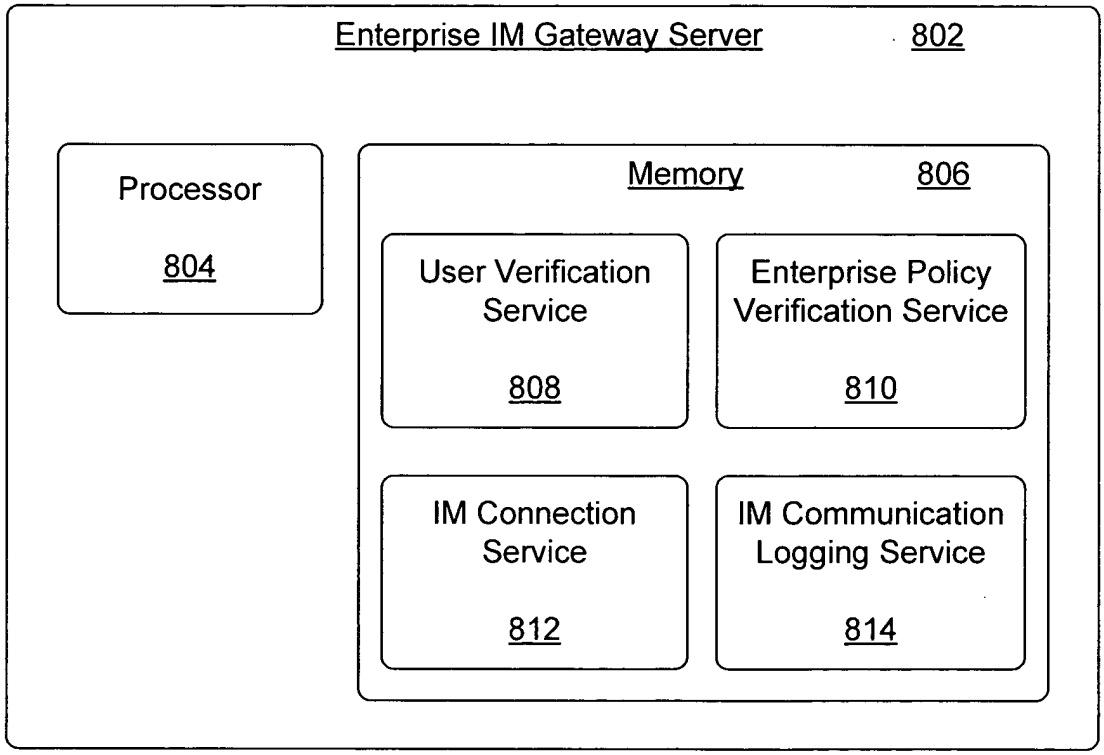
Enterprise IM Gateway Server
802
Processor
804
Memory
806
User Verification Service
808
Enterprise Policy Verification Service
810
IM Connection Service
812
IM Communication Logging Service
814

Figure 8

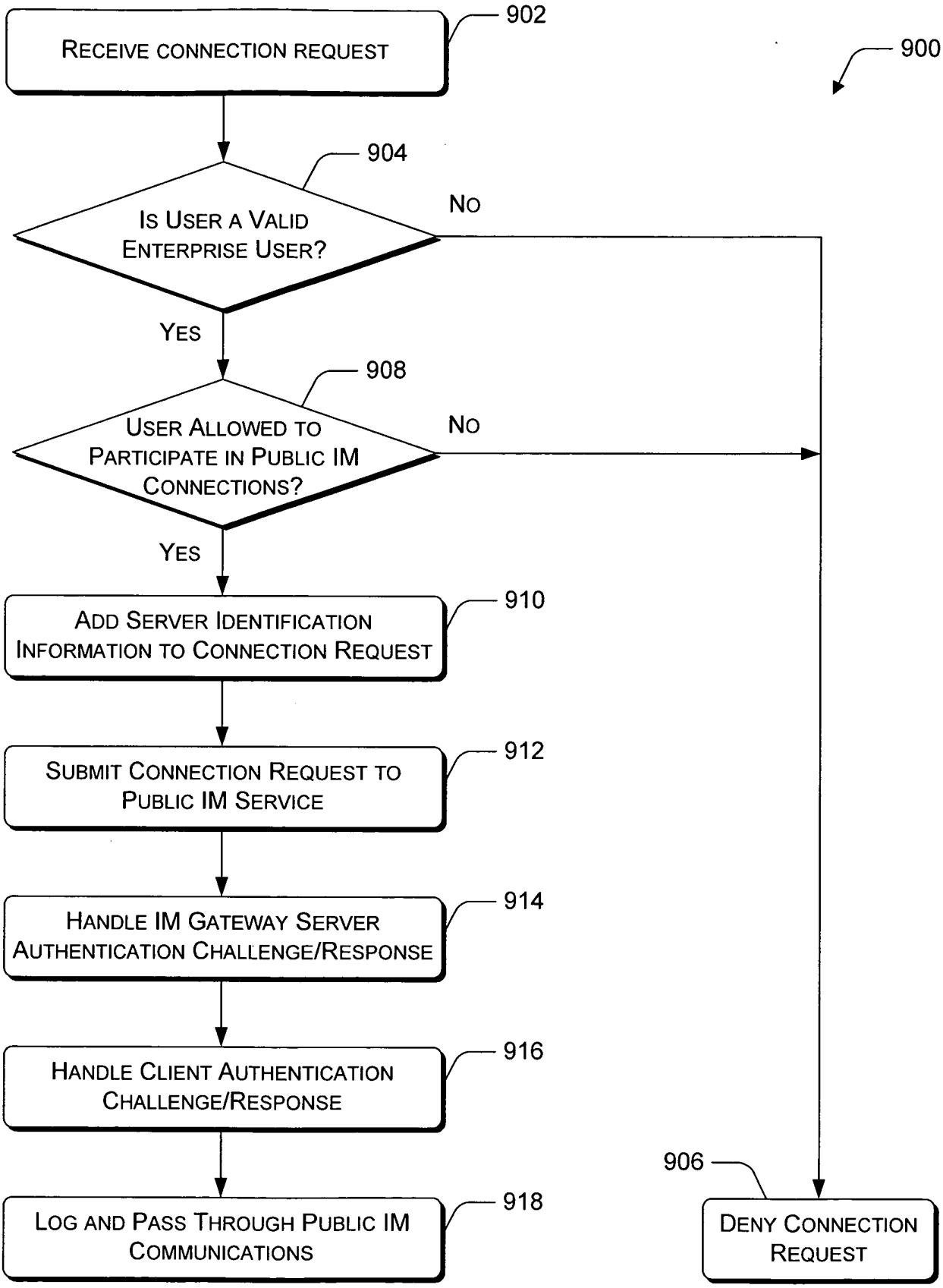
RECEIVE CONNECTION REQUEST
902
900
904
IS USER A VALID ENTERPRISE USER?
NO
YES
908
USER ALLOWED TO PARTICIPATE IN PUBLIC IM CONNECTIONS?
NO
YES
ADD SERVER IDENTIFICATION INFORMATION TO CONNECTION REQUEST
910
SUBMIT CONNECTION REQUEST TO PUBLIC IM SERVICE
912
HANDLE IM GATEWAY SERVER AUTHENTICATION CHALLENGE/RESPONSE
914
HANDLE CLIENT AUTHENTICATION CHALLENGE/RESPONSE
916
LOG AND PASS THROUGH PUBLIC IM COMMUNICATIONS
918
906
DENY CONNECTION REQUEST

Figure 9